

Yue-Biao Zhang

List of Publications by Citations

Source: <https://exaly.com/author-pdf/6352900/yue-biao-zhang-publications-by-citations.pdf>

Version: 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

88

papers

9,696

citations

38

h-index

98

g-index

101

ext. papers

11,564

ext. citations

12.1

avg, IF

6.43

L-index

#	Paper	IF	Citations
88	Covalent organic frameworks comprising cobalt porphyrins for catalytic CO ₂ reduction in water. <i>Science</i> , 2015 , 349, 1208-13	33.3	1540
87	Water adsorption in porous metal-organic frameworks and related materials. <i>Journal of the American Chemical Society</i> , 2014 , 136, 4369-81	16.4	1433
86	Metal azolate frameworks: from crystal engineering to functional materials. <i>Chemical Reviews</i> , 2012 , 112, 1001-33	68.1	1337
85	Supercapacitors of nanocrystalline metal-organic frameworks. <i>ACS Nano</i> , 2014 , 8, 7451-7	16.7	540
84	A highly connected porous coordination polymer with unusual channel structure and sorption properties. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 5287-90	16.4	354
83	Superacidity in sulfated metal-organic framework-808. <i>Journal of the American Chemical Society</i> , 2014 , 136, 12844-7	16.4	350
82	Toward a single-layer two-dimensional honeycomb supramolecular organic framework in water. <i>Journal of the American Chemical Society</i> , 2013 , 135, 17913-8	16.4	287
81	Introduction of functionality, selection of topology, and enhancement of gas adsorption in multivariate metal-organic framework-177. <i>Journal of the American Chemical Society</i> , 2015 , 137, 2641-50	16.4	285
80	Single-crystal structure of a covalent organic framework. <i>Journal of the American Chemical Society</i> , 2013 , 135, 16336-9	16.4	277
79	Tunable electrical conductivity in oriented thin films of tetrathiafulvalene-based covalent organic framework. <i>Chemical Science</i> , 2014 , 5, 4693-4700	9.4	235
78	High Methane Storage Working Capacity in Metal-Organic Frameworks with Acrylate Links. <i>Journal of the American Chemical Society</i> , 2016 , 138, 10244-51	16.4	201
77	A Robust Ethane-Trapping Metal-Organic Framework with a High Capacity for Ethylene Purification. <i>Journal of the American Chemical Society</i> , 2019 , 141, 5014-5020	16.4	164
76	Principles of Designing Extra-Large Pore Openings and Cages in Zeolitic Imidazolate Frameworks. <i>Journal of the American Chemical Society</i> , 2017 , 139, 6448-6455	16.4	146
75	Geometry analysis and systematic synthesis of highly porous isorecticular frameworks with a unique topology. <i>Nature Communications</i> , 2012 , 3, 642	17.4	139
74	A Dynamic Three-Dimensional Covalent Organic Framework. <i>Journal of the American Chemical Society</i> , 2017 , 139, 4995-4998	16.4	136
73	An octacobalt cluster based, (3,12)-connected, magnetic, porous coordination polymer. <i>Chemical Communications</i> , 2010 , 46, 6311-3	5.8	112
72	Slippery for scaling resistance in membrane distillation: A novel porous micropillared superhydrophobic surface. <i>Water Research</i> , 2019 , 155, 152-161	12.5	107

71	Direct visualization of a guest-triggered crystal deformation based on a flexible ultramicroporous framework. <i>Nature Communications</i> , 2013 , 4, 2534	17.4	106
70	Engineering of Pore Geometry for Ultrahigh Capacity Methane Storage in Mesoporous Metal-Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2017 , 139, 13300-13303	16.4	106
69	Pillaring Zn-Triazolate Layers with Flexible Aliphatic Dicarboxylates into Three-Dimensional Metal-Organic Frameworks. <i>Crystal Growth and Design</i> , 2008 , 8, 3673-3679	3.5	89
68	Supramolecular-jack-like guest in ultramicroporous crystal for exceptional thermal expansion behaviour. <i>Nature Communications</i> , 2015 , 6, 6917	17.4	83
67	(003)-Facet-exposed Ni ₃ S ₂ nanoporous thin films on nickel foil for efficient water splitting. <i>Applied Catalysis B: Environmental</i> , 2019 , 243, 693-702	21.8	82
66	Microwave-Assisted Solvothermal Synthesis of a Dynamic Porous Metal-Carboxylate Framework. <i>Crystal Growth and Design</i> , 2008 , 8, 4559-4563	3.5	73
65	Anisotropic reticular chemistry. <i>Nature Reviews Materials</i> , 2020 , 5, 764-779	73.3	72
64	Robust Metal-Triazolate Frameworks for CO Capture from Flue Gas. <i>Journal of the American Chemical Society</i> , 2020 , 142, 2750-2754	16.4	70
63	Crystallization of Covalent Organic Frameworks for Gas Storage Applications. <i>Molecules</i> , 2017 , 22,	4.8	70
62	Syntheses, structures and magnetic properties of a family of metal carboxylate polymers via in situ metal-ligand reactions of benzene-1,2,3-tricarboxylic acid. <i>Dalton Transactions</i> , 2009 , 1396-406	4.3	68
61	Isotherms of individual pores by gas adsorption crystallography. <i>Nature Chemistry</i> , 2019 , 11, 562-570	17.6	64
60	New Zn-Aminotriazolate-Dicarboxylate Frameworks: Synthesis, Structures, and Adsorption Properties. <i>Crystal Growth and Design</i> , 2013 , 13, 2118-2123	3.5	64
59	Guest-Dependent Dynamics in a 3D Covalent Organic Framework. <i>Journal of the American Chemical Society</i> , 2019 , 141, 3298-3303	16.4	60
58	Thiazolo[5,4-d]thiazole-Based Donor-Acceptor Covalent Organic Framework for Sunlight-Driven Hydrogen Evolution. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 1869-1874	16.4	59
57	Organic-Inorganic Layered and Hollow Tin Bromide Perovskite with Tunable Broadband Emission. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 34363-34369	9.5	58
56	Two microporous metal-organic frameworks with different topologies constructed from linear trinuclear M ₃ (COO) _n secondary building units. <i>CrystEngComm</i> , 2008 , 10, 753	3.3	55
55	Two temperature-induced isomers of metal-carboxylate frameworks based on different linear trinuclear Co ₃ (RCOO) ₈ clusters exhibiting different magnetic behaviours. <i>CrystEngComm</i> , 2010 , 12, 3834-3	2.3	49
54	Layer-by-layer evolution and a hysteretic single-crystal to single-crystal transformation cycle of a flexible pillared-layer open framework. <i>Chemical Communications</i> , 2012 , 48, 133-5	5.8	48

53	Unprecedented scaling/fouling resistance of omniphobic polyvinylidene fluoride membrane with silica nanoparticle coated micropillars in direct contact membrane distillation. <i>Journal of Membrane Science</i> , 2020 , 599, 117819	9.6	48
52	Characterization of Adsorption Enthalpy of Novel Water-Stable Zeolites and Metal-Organic Frameworks. <i>Scientific Reports</i> , 2016 , 6, 19097	4.9	44
51	A one-dimensional coordination polymer exhibiting simultaneous spin-crossover and semiconductor behaviour. <i>Chemical Communications</i> , 2011 , 47, 10233-5	5.8	44
50	Atomic-Level Characterization of Dynamics of a 3D Covalent Organic Framework by Cryo-Electron Diffraction Tomography. <i>Journal of the American Chemical Society</i> , 2019 , 141, 10962-10966	16.4	36
49	A Highly Connected Porous Coordination Polymer with Unusual Channel Structure and Sorption Properties. <i>Angewandte Chemie</i> , 2009 , 121, 5391-5394	3.6	36
48	Harnessing Bottom-Up Self-Assembly To Position Five Distinct Components in an Ordered Porous Framework. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 5348-5353	16.4	32
47	Covalently Connected NbNO-MoS Heterocatalysts with Desired Electron Density to Boost Hydrogen Evolution. <i>ACS Nano</i> , 2020 , 14, 4925-4937	16.7	31
46	Water-Soluble Flexible Organic Frameworks That Include and Deliver Proteins. <i>Journal of the American Chemical Society</i> , 2020 , 142, 3577-3582	16.4	31
45	Enhancing the Gas Separation Selectivity of Mixed-Matrix Membranes Using a Dual-Interfacial Engineering Approach. <i>Journal of the American Chemical Society</i> , 2020 , 142, 18503-18512	16.4	29
44	Water-Soluble 3D Covalent Organic Framework that Displays an Enhanced Enrichment Effect of Photosensitizers and Catalysts for the Reduction of Protons to H ₂ . <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 1404-1411	9.5	28
43	Docking of Cu and Ag in Metal-Organic Frameworks for Adsorption and Separation of Xenon. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 3417-3421	16.4	26
42	Cooperative Capture of Uranyl Ions by a Carbonyl-Bearing Hierarchical-Porous Cu-Organic Framework. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 18808-18812	16.4	25
41	Buffering additive effect in the formation of metal-carboxylate frameworks with slightly different linear M ₃ (RCOO) ₆ clusters. <i>CrystEngComm</i> , 2011 , 13, 4196	3.3	25
40	Secondary-amine-functionalized isorecticular metal-organic frameworks for controllable and selective dye capture. <i>Materials Chemistry Frontiers</i> , 2018 , 2, 129-135	7.8	24
39	From Nonporous to Porous Doubly-Pillared-Layer Framework: Control over Interpenetration via Shape Alteration of Layer Apertures. <i>Crystal Growth and Design</i> , 2012 , 12, 1626-1631	3.5	20
38	Improvement of permeability and rejection of an acid resistant polysulfonamide thin-film composite nanofiltration membrane by a sulfonated poly(ether ether ketone) interlayer. <i>Separation and Purification Technology</i> , 2020 , 239, 116528	8.3	20
37	3-[[3-(Triethoxysilyl)-propyl] amino] propane-1-sulfonic acid zwitterion grafted polyvinylidene fluoride antifouling membranes for concentrating greywater in direct contact membrane distillation. <i>Desalination</i> , 2019 , 455, 71-78	10.3	16
36	Modulator-Induced Zr-MOFs Diversification and Investigation of Their Properties in Gas Sorption and Fe Ion Sensing. <i>Inorganic Chemistry</i> , 2020 , 59, 2961-2968	5.1	16

35	Fine-Tuning the Micro-Environment to Optimize the Catalytic Activity of Enzymes Immobilized in Multivariate Metal-Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2021 , 143, 15378-15390	16.4	14
34	Reconstructed covalent organic frameworks.. <i>Nature</i> , 2022 , 604, 72-79	50.4	14
33	Diverse crystal size effects in covalent organic frameworks. <i>Nature Communications</i> , 2020 , 11, 6128	17.4	13
32	Reticular materials for electrochemical reduction of CO ₂ . <i>Coordination Chemistry Reviews</i> , 2021 , 427, 213564	23.2	13
31	A Three-Dimensional sp Carbon-Conjugated Covalent Organic Framework. <i>Journal of the American Chemical Society</i> , 2021 , 143, 15562-15566	16.4	13
30	Unravelling Crystal Structures of Covalent Organic Frameworks by Electron Diffraction Tomography. <i>Chinese Journal of Chemistry</i> , 2020 , 38, 1153-1166	4.9	12
29	Porous coordination polymers constructed from anisotropic metal-carboxylate-pyridyl clusters. <i>Pure and Applied Chemistry</i> , 2012 , 85, 405-416	2.1	12
28	Achiral diamondoid or chiral quartz net: the effect of substituents in the topology and catenation of coordination polymers based on tetrahedral Cd(COO) ₄ building units. <i>CrystEngComm</i> , 2013 , 15, 3470	3.3	12
27	Mitigation of gypsum and silica scaling in membrane distillation by pulse flow operation. <i>Journal of Membrane Science</i> , 2021 , 624, 119107	9.6	11
26	Forward osmosis concentration of a vanadium leaching solution. <i>Journal of Membrane Science</i> , 2019 , 582, 164-171	9.6	10
25	Impact of SPEEK on PEEK membranes: Demixing, morphology and performance enhancement in lithium membrane extraction. <i>Journal of Membrane Science</i> , 2020 , 615, 118448	9.6	10
24	Anion exchange-induced single-molecule dispersion of cobalt porphyrins in a cationic porous organic polymer for enhanced electrochemical CO ₂ reduction via secondary-coordination sphere interactions. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 18677-18686	13	10
23	New Reticular Chemistry of the Rod Secondary Building Unit: Synthesis, Structure, and Natural Gas Storage of a Series of Three-Way Rod Amide-Functionalized Metal-Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2021 , 143, 12202-12211	16.4	10
22	Thiazolo[5,4-d]thiazole-Based Donor-Acceptor Covalent Organic Framework for Sunlight-Driven Hydrogen Evolution. <i>Angewandte Chemie</i> , 2021 , 133, 1897-1902	3.6	10
21	Harnessing Bottom-Up Self-Assembly To Position Five Distinct Components in an Ordered Porous Framework. <i>Angewandte Chemie</i> , 2019 , 131, 5402-5407	3.6	8
20	How to create MOF glasses and take advantage of emerging opportunities. <i>Science Bulletin</i> , 2020 , 65, 1432-1435	10.6	7
19	Direct-Space Structure Determination of Covalent Organic Frameworks from 3D Electron Diffraction Data. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 22638-22644	16.4	6
18	Covalent Organic Frameworks for Sunlight-driven Hydrogen Evolution. <i>Chemistry Letters</i> , 2021 , 50, 676-686	6	6

17	Renaissance of the Methane Adsorbents. <i>Israel Journal of Chemistry</i> , 2018 , 58, 985-994	3.4	6
16	An Allosteric Metal-Organic Framework That Exhibits Multiple Pore Configurations for the Optimization of Hydrocarbon Separation. <i>Chemistry - an Asian Journal</i> , 2019 , 14, 3552-3556	4.5	5
15	Docking of CuI and AgI in Metal-Organic Frameworks for Adsorption and Separation of Xenon. <i>Angewandte Chemie</i> , 2021 , 133, 3459-3463	3.6	5
14	Flexible Metal-Organic Frameworks as CO ₂ Adsorbents en Route to Energy-Efficient Carbon Capture. <i>Small Structures</i> , 2100209	8.7	5
13	A metal-organic framework supported iridium catalyst for the gas phase hydrogenation of ethylene. <i>Chemical Communications</i> , 2020 , 56, 15313-15316	5.8	4
12	Oxidative Aromatization of Biobased Chemicals to Benzene Derivatives through Tandem Catalysis. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 14322-14329	8.3	4
11	Tracking Ultrafast Fluorescence Switch-On and Color-Tuned Dynamics in Acceptor-Donor-Acceptor Chromophore. <i>Journal of Physical Chemistry B</i> , 2021 , 125, 10796-10804	3.4	4
10	Docking MOF crystals on graphene support for highly selective electrocatalytic peroxide production. <i>Nano Research</i> , 2021 , 1-8	10	2
9	Control over interpenetration for boosting methane storage capacity in metal-organic frameworks. <i>Journal of Materials Chemistry A</i> ,	13	2
8	Physicochemical Understanding of the Impact of Pore Environment and Species of Adsorbates on Adsorption Behaviour. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 20504-20510	16.4	2
7	Direct-Space Structure Determination of Covalent Organic Frameworks from 3D Electron Diffraction Data. <i>Angewandte Chemie</i> , 2020 , 132, 22827-22833	3.6	1
6	Coordination modulated on-off switching of flexibility in a metal-organic framework. <i>Chemical Science</i> , 2021 , 12, 14893-14900	9.4	0
5	Physicochemical Understanding of the Impact of Pore Environment and Species of Adsorbates on Adsorption Behaviour. <i>Angewandte Chemie</i> , 2021 , 133, 20667-20673	3.6	0
4	Layer-by-layer (LBL) hollow fiber nanofiltration membranes for seawater treatment: Ion rejection. <i>Desalination</i> , 2022 , 534, 115793	10.3	0
3	Titelbild: Thiazolo[5,4-d]thiazole-Based Donor-Acceptor Covalent Organic Framework for Sunlight-Driven Hydrogen Evolution (Angew. Chem. 4/2021). <i>Angewandte Chemie</i> , 2021 , 133, 1685-1685 ^{3.6}		
2	Innenrãktitelbild: Docking of CuI and AgI in Metal-Organic Frameworks for Adsorption and Separation of Xenon (Angew. Chem. 7/2021). <i>Angewandte Chemie</i> , 2021 , 133, 3867-3867	3.6	
1	Flexible Metal-Organic Frameworks as CO ₂ Adsorbents en Route to Energy-Efficient Carbon Capture. <i>Small Structures</i> , 2022 , 3, 2270019	8.7	